

THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

Zwaan & Pe Wiljes, Utd.

Whereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT PLETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS Y THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SMALLER CAT'S TAIL

'Match'

In Lestimony Wancreot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington

this 28th day of January in year of our Lord one thousand nine wed and seventy-seven

Attast:

Spller

Commissioner

Plant Variety Protection Office

Grain Division

Agriculturo

UNITED STATES DEPARTMENT OF AGRICULTURE CONSUMER AND MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

NSTRUCTIONS: See Reverse. . VARIETY NAME OR TEMPORARY		· · · · · · · · · · · · · · · · · · ·		
	2. KIND NAME		FOR OFFICIAL PVPO NUMBER	AL USE ONLY
DESIGNATION MATCH	Smaller Ca	Smaller Cat's tail		61
B. GENUS AND SPECIES NAME	4. FAMILY NAME (Botanical)		FILING DATE	TIME A.M.
Phleum nodosum L	Gramineae	MINICAL	12-10-71	1:30 (F.M.)
 	5. DATE OF DETERMAN	mINATION	\$ 750,00	CHARGES
NAME OF ADD WILLIAM OF THE	7 ADDRESS (Stead S	and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA
S. NAME OF APPLICANTIST	Gode)	mar tha co wer of	表表 \$755 (# \$5 - 193)	CODE AND NUMBER
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9. IF THE NAMED APPLICANT IS NOT A PER ORGANIZATION: (Compression, participality)	essociation, etc.)	Element in the second		PORATION 1914
•		Limited Lia	bility Company	
12. Name and mailing address of applic	ant representative	s), if any, to serve	in this application as	nd receive all papers:
କ୍ରଣ ପ୍ରତିଶ୍ୱର ଅଧିକ ଅଧିକ ହେଛି । ଜନ୍ମ	ntation ()	- goonmon #= 	levant for the	application
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13. CHECK BOX BELOW FOR EACH ATTACH	MENT SUBMITTED:		HERVINESTER STATE OF THE	-
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INSTRUCTIONS the transfer of the same of the state of the same was

1.

GENERAL: Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files.

All items on the face of the form are self-explanatory unless noted below.

- r iki kurun kalg<mark>angkong b</mark>ersagan taliju prangan nompg snap salangag kurun in d Kalang lagga ang^a 12 tahun Bungan, kaling pangan kompg snap salangan kaling balang Insert the date the applicant determined that he had a new variety. variety. 25
- 12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection 恢 and multiplication. Third, indicate the type and frequen-cy of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 3. 24. 3. 12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown mender the same conditions, and indicate the differences. And responsible to the same conditions, and indicate the differ-
 - 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may . In the second be sterile. Where possible, include photographs of plant comparisons, chemical tests cetc.
 - 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

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Application No. 72061, Smaller Cat's Tail "Match"

New Exhibit A

- 1. The variety "Match" has been derived from seed of Phleum Bertolonii received through the CSRI in Australia and is of Spanish origin.
- 2. Selection work started in 1966 by establishing 270 clones. In 1969 the 10 best clones were vegatively multiplied and 10 clonal fields established. The clonal topcross-seed of the 8 best clones is the basis of the variety.

 All clones are 2n = 14.
- 3. As you can expect in an open-pollinated crop, there is a normal-distribution for every quantitive character. The standard-deviations show that the homogeneity of "Match" is better than in existing varieties (stated by the IVRO-the Dutch Institute for Variety Examination). There are no plants which really deviate. So we can state: no variants.
- 4. The plants of the different generations after the breedersseed do not differ at all from the plants of the breedersseed. The plants of every generation are of the same type and the average shooting dates are quite similar. We can prove this by telling you, that we have obtaines Breedersrights in Holland and Germany for "Match". In these countries the different generations are grown together on the official trialgrounds and have to meet a 100% stability. Match is stable.

Application No. 72061, Smaller Cat's Tail "Match"

New Exhibit D

"Match" is a diploid Phleum (Bertolonii). "Match" is different from all the other diploid Phleum varieties by having a 4 or more days earlier maturity date (50% of plants headed). A difference of 2.7 days is required for a statistically significant difference at the 0,05 level of significance.

7200061

Attachment to application for Plant Variety Protection Certificate of Phleum nodosum L "MATCH"

Botanical Description of the Variety

12b Exhibit B

Although 1000 grain weight is somewhat variable due to environment the variety "Match" has a 1000 grain weight of 460 mgr. against Pedestra 320 mgr. and Impresso 312 mgr.

In the year of sowing the new variety shoots the same time as S 50 from the Welsh Plant Breeding Station. In the year after sowing the new variety shoots the same time as Barenza a haytype of Timothy from Barenbrug Ltd. in Holland.

In case "Match" is cut short around shooting time in the year after planting only a small percentage of the plants shoots again the same year.

The culms of "Match" are shorter than S 50.

"Match" has a wider and slightly lighter colored foliage than S 50. An important characteristic of this variety is its high 1000 grain weight.

April 3, 1975

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY 7200061

Timothy, Smaller Cat's Tail Match (Phleum spp.) SPECIES: 3=other (specify) 2=pratense 1 l=bertolonii PLOIDY: 3 = Other (specify)_ 1 = diploid2 = tetraploid 14 2n chromsome number.
AREA OF ADAPTATION: 3. AREA OF ADAPTATION:

1 Type: 1=Turf 2=Pasture 3=Hay or pasture 4=Hay

3. MATURITY (50% anthesis): 21 = very early 2 = early 3 = medium 4 = late 5 = very late days earlier than 1 = Aberystwyth S 50 = Evergreendays later than 7 = Clair 4 = Itasca 5 = Climax 6 = Lorain

7 = Verdant 8=Other (specify)PLANT HEIGHT 39 cm tall 16 cm shorter than 2 = Aberystwyth S 50 = Evergreen cm taller than = 3= Clair 4=Itasca 5=Climax 6=Lorain 7=Verdant 8=Other (specify) PLANT: 1 1=stolons absent 2 1=prostrate growth 1=stolons absent 2=stolons present 1=prostrate growth 2=semiprostrate 3=rhizomes present 3=erect 7. TURF CHARACTERISTICS: 2 = equal 3 = thicker than 1 2 = equal 3 = coarser than 3 1 = Aberystwyth Turf Thickness: l = thinner
Coarseness: l = finer S 50 than 1 = Evergreen 3 = Other 2 = equal 3 = darkerl = lighter[3]Summer Color: than 1 (specify)
than 3 Cligreen 2 = equal 3 = darker1 = 1ighter3 Winter Color: 2 = equal3 = more l = less1 Winter Burn: STEM:

anthocyanin 1 = absent2 = present cm exertion (Flag leaf to base of head at maturity) no. of nodes above corm Stem color before ripening

| O | S | green | S | purple | O S | Other (specify) Shape of neck ₩ straight ₩avy % Other(specify) 5.7 mm width of flag leaf Results of the IVRO 3.3 cm length of flag leaf Dutch Variety Office) angle of flag leaf (at boot stage): 1 = drooping 2 = ascending 3 = Other (specify) ____ 1 Flag leaf: l=Not twisted 2=Twisted

2 Cross section of flag leaf (at boot stage): l=flat 2=concave 3=Other(specify) _

2 anthocyanin: l=absent 2=present (few, sometimes)

· · · · · · · · · · · · · · · · · · ·		7	200061
1 Heads produced 1 anthocyanin 2 shape: 1 =	U2 cm length (a after mowing at early 1 = absent 2 = profusiform 2 = cylind other (specify)	boot: 1 = nc resent rical 3 = cor	nical 4 = clavate
O rust (Puccini O brown stripe O leaf smut (Us O Eyespot (Hete O Bacterial str	t Tested, l=Susceptible a graminis) (Scolecotrichum gramini tilago striaeformis) rosporium phlei) ipe (Zanthomonas transl y)	<u>s</u>)	
(specify in specify in specifical	ot Tested, l=Susceptible sect) sect) sect)	e, 2=Resistant	:):
INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED FOR THE FOLLOWING CHARACTERS:			
CHARACTER	VARIETY	CHARACTER	VARIETY
Leafiness	Holea	Persistence	Sport
Seedling vigor		Regrowth	
Coarsness	allgreen aberystwyth S-50		
Area of adaptation	aberystwyth S-50		

ADDITIONAL INFORMATION:

Coarsness Area of adaptation

7200061

Application No. 72061, Smaller Cat's Tail "Match"

New Exhibit D

"Natch" is a diploid Phleum (Bertolonii). "Match" is different from all the other diploid Phleum varieties by having a 4 or more days earlier maturity date (50% of plants headed). A difference of 2.7 days is required for a statistically significant difference at the 0,05 level of significance.

WHOLESALE SEED GROWERS-, MERCHANTS and PLANTBREEDERS

Telephone: 05979-233

Cable address: "Selecta" - Scheemda

Telex 53146 (Smith nl)

Bankers: AMRO BANK, Groningen acc.nr. 44.60.70.114

SCHEEMDA, 29th September 1976

P.O. Box 2

United States Department of Agriculture Agricultural Harketing Service Grain Division National Agricultural Library BELTSVILLE/Maryland 20705

To the attention of Mr. Renneth H. Evans

Subject: Application No. 72061, Smaller Cat's Tail, "Match".

Your letter of September 22nd, 1976

Dear Sir,

The table of the N.A.K. (Netherlands General Inspection Service) Wageningen/Holland shows the maturity dates as stated below

Natch	4/6	Barbino	10/6
Hortel	8/6	Nodora	11/6
Impresso	9/6	Baret	11/6
Sport	10/6	Barosa	11/6
S-50	10/6	Piccolo	11/6
Holea	10/6	Allgreen	12/6

The variety "Match" is 4 or more days earlier than the other varieties.

Yours faithfully

ZWAAN & DE WILJES B.V.

Ir. 0.J.(1.5 Plantbreeder

CvC/IEP

00007

Attachment to application for Plant Variety Protection Certificate of Phleum nodosum L "MATCH"

Data Indicative of Novelty

12d Exhibit D

As the new variety of Phleum nodosum L under consideration is meant for lawn purposes the following relevant comparisons were made in the lawn between S 50, Match and King. The latter is a commercial variety of D.J. van der Have in The Netherlands.

Year after sowing (1970)

Spring thickness turf	Match = \$ 50 :	= King
fresh color	Match = S 50	King
Summer drought resistance	s 50 > King	> Match
Late Summer color	Match > S 50	> King
tate fall color	s = 50 > King	> Match
Winter color	S 50 = Match	> King

Second year after sowing 1971

Late Spring thickness turf	King	> s 50	>	Match
Early Summer color	Match	≫ \$ 50	>	King
Late Summer color	Match	≫ S 50	<i>>></i>	King
Fall color	Match	= S 50	<i>≫</i>	King

Attachment to application for Plant Variety Protection Certificate of Phleum nodosum L "MATCH"

12e Exhibit E - Statement of the Basis of Applicant's Ownership

Applicant, Zwaan & de Wiljes Limited, Scheemda (The Netherlands) is the actual breeder.